

## C L A I M S

1. A radio communication apparatus comprising:
  - a reception history table configured to store information-identification identifying received information; and
    - a controller configured to prevent information from being received of which information-identification is stored in said reception history table.
  2. The apparatus according to claim 1, wherein
    - said reception history table stores apparatus-identification identifying the other apparatus which transmits information to be received and category-identification identifying a category of the information to be received; and
      - said controller comprises:
        - a radio link connection unit configured to establish a radio link to the other apparatus;
        - a receiver configured to receive the apparatus-identification of the other apparatus and the information-identification of the information to be received;
        - a comparator configured to determine whether the received apparatus-identification and received information-identification are stored in said reception history table; and
        - a radio link disconnection unit configured to disconnect the radio link if it is determined that

the received apparatus-identification and received information-identification are stored in said reception history table.

3. The apparatus according to claim 2, wherein  
5 said controller further comprises:

an information receiver configured to receive  
the information from the other apparatus if it is  
determined that the received apparatus-identification  
and received information-identification are not stored  
10 in said reception history table; and

a table update unit configured to register the  
received apparatus-identification and received  
information-identification in said reception history  
table.

15 4. The apparatus according to claim 1, wherein  
said reception history table stores date-  
information of the received information; and  
said controller comprises:

20 a radio link connection unit configured to  
establish a radio link to the other apparatus;  
a receiver configured to receive the date-  
information of the information to be transmitted by  
the other apparatus;

25 a comparator configured to compare the  
received date-information and the date-information  
stored in said reception history table; and

a radio link disconnection unit configured

to disconnect the radio link if the received date-information equals to the date-information stored in said reception history table.

5       5. The apparatus according to claim 4, wherein  
said controller further comprises:

an information receiver configured to receive the information from the other apparatus if the received date-information does not equal to the date-information stored in said reception history table; and

10      10. a table update unit configured to register the date-information of the received information in said reception history table.

15      6. A radio communication method comprising:  
establishing a radio link to another apparatus;  
receiving information-identification identifying information to be received;

20      determining whether the received information-identification is stored in a reception history table which stores the information-identification identifying received information; and

disconnecting the radio link if it is determined that the received information-identification is stored in said reception history table.

25      7. The method according to claim 6, further comprising:

receiving the information from the other apparatus if it is determined that the received

information-identification is not stored in said reception history table; and

registering the information-identification of the received information in said reception history table.

5       8. The method according to claim 6, wherein said information-identification comprises apparatus-identification identifying the other apparatus and category-identification identifying a category of information.

10      9. The method according to claim 6, wherein said information-identification comprises date-information.

10. A radio communication apparatus comprising:  
a transmission history table configured to store information-identification identifying transmitted information; and

a controller configured to prevent information from being transmitted of which information-identification is stored in said transmission history table.

20      11. The apparatus according to claim 10, wherein said transmission history table stores apparatus-identification identifying the other apparatus to which the information was transmitted and category-identification identifying a category of the transmitted information; and  
said controller comprises:

a radio link connection unit configured to

establish a radio link to the other apparatus;  
a receiver configured to receive the apparatus-identification of the other apparatus and the category-identification identifying a category of the  
information which was received by the other apparatus;

5 a comparator configured to determine whether the received apparatus-identification and the category-identification are stored in said transmission history table; and

10 a radio link disconnection unit configured to disconnect the radio link if it is determined that the received apparatus-identification and received category-identification are stored in said transmission history table.

15 12. The apparatus according to claim 11, wherein said controller further comprises:

an information transmitter configured to transmit the information to the other apparatus if it is determined that the received apparatus-identification and received category-identification are not stored in  
20 said transmission history table; and

a table update unit configured to register the apparatus-identification of the other apparatus and category-identification of the transmitted information in said transmission history table.

25 13. A radio communication method comprising:  
establishing a radio link to another apparatus;

receiving information-identification identifying information which was received by the other apparatus;

5 determining whether the received information-identification is stored in a transmission history table which stores the information-identification identifying information which was transmitted to the other apparatus; and

10 disconnecting the radio link if it is determined that the received information-identification is stored in said transmission history table.

14. The method according to claim 13, further comprising:

15 transmitting the information to the other apparatus if it is determined that the received information-identification is not stored in said transmission history table; and

registering the information-identification of the transmitted information in said transmission history table.

20 15. The method according to claim 13, wherein said information-identification comprises apparatus-identification identifying the other apparatus and category-identification identifying a category of information.

25 16. A radio communication system comprising:  
transmitter units, each of which configured to transmit information; and

receiver units, each of which configured to receive the information transmitted from one of said transmitter units,

wherein at least one of said transmitter units and  
5 said receiver units comprise:

an information management table configured to store information-identification identifying information which has been transmitted from one of said transmitter units to one of said receiver units,  
10 transmitter-identification identifying one of the transmitters which has transmitted the information, and receiver-identification identifying one of the receiver which has received the information; and

15 a controller configured to prevent the same information from being received by the same receiver.

17. The system according to claim 16, wherein said transmitter units and said receiver units are connected by a radio link based on Bluetooth protocol.